What is claimed is:

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- 1. A circuit for arbitrating current from a single power source to a plurality of loads, the circuit comprising:
 - a. a means of sensing a voltage of the single power source;
 - b. a means of regulating current to at least a second load;
 - c. a means of decoupling the single power source from the plurality of loads; and
 - d. a control means coupled to the means for sensing voltage and the means for regulating current;

wherein when the means for decoupling is actuated, the control means defines an open-circuit power supply voltage.

- 2. The circuit of claim 1, wherein the control means defines a threshold voltage, wherein the threshold voltage is equal to or less than the open-circuit power supply voltage.
- 3. The circuit of claim 2, wherein the control means causes the means of regulating current the to supply as much current as possible to the at least a second load while maintaining a voltage from the single power source that is greater than or equal to the threshold voltage.
- 4. A circuit for delegating current to a plurality of loads, the circuit comprising:
 - a. a means for coupling to a power source;
 - b. a means for coupling to the plurality of loads, the plurality of loads comprising at least a first load and at least a second load;
 - c. a switch means coupled serially between the means for coupling to a power source and the means for coupling to a plurality of loads;
 - d. a means for regulating current coupled serially between the mans for coupling to a power source and the at least a second load;
 - e. a means for sensing a voltage of the power source; and

- f. a control means coupled to both the switch means and the means for regulating current.
- 5. The circuit of claim 4, wherein when the switch means is open, the control means records the voltage of the power source by way of the means for sensing a voltage of the power source.
- 6. The circuit of claim 5, wherein the control means defines a threshold voltage upon sensing the voltage of the power supply.

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- 7. The circuit of claim 6, wherein the threshold voltage is less than or equal to the sensed voltage of the power supply.
- 8. The circuit of claim 7, wherein the threshold voltage is between 10 and 1000 millivolts below the recorded voltage of the power source.
 - 9. The circuit of claim 6, wherein the control means actuates the means for regulating current and reduces the current flowing to the at least a second load when the voltage of the power source falls below the threshold voltage.
- 10. The circuit of claim 9, wherein the control means increases the current flowing to the at least a second load when the voltage of the power source is above the threshold voltage.
 - 11. The circuit of claim 10, wherein the at least a second load comprises a rechargeable battery.
- 12. A method of delegating current to a plurality of loads, the method comprising the steps of:
 - a. decoupling a power source from the plurality of loads;
 - b. sensing an open-circuit power source voltage;
 - c. coupling the power source to the plurality of loads;
 - d. establishing a threshold voltage;

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e. actuating a current regulator to provide current to at least a second of the plurality of loads;

- f. reducing the current to the at least a second of the plurality of loads whenever an output voltage of the power source falls below the threshold voltage.
- 13. The method of claim 12, further comprising the step of increasing the current to the at least a second load when the output voltage of the power source is above the threshold voltage.
- 14. The method of claim 13, wherein the at least a second load comprises a rechargeable battery.

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